

Abstract of the Disclosure

A local area network is provided where OFDM stations and DSSS/CCK only stations coexist. Before transmitting, an OFDM station learns of the modulation capability of an intended receiving station. If the receiving station is only capable of DSSS/CCK modulation then the OFDM station transmits DSSS/CCK modulated data. If the receiving station is capable of OFDM modulation, then the OFDM station transmits OFDM modulated data thereby enabling efficient bandwidth usage.